# Pain and Addiction: Challenges and Controversies

Mel Pohl, MD, FASAM

Medical Director Las Vegas Recovery Center



#### 5 Key Facts:

- All pain is real.
- Emotions drive the experience of chronic pain.
- Opioids often make pain worse.
- Treat to improve function.
- Expectations influence outcomes.



#### Pain Definition

"An unpleasant sensory and emotional experience associated with actual or potential tissue damage ...."

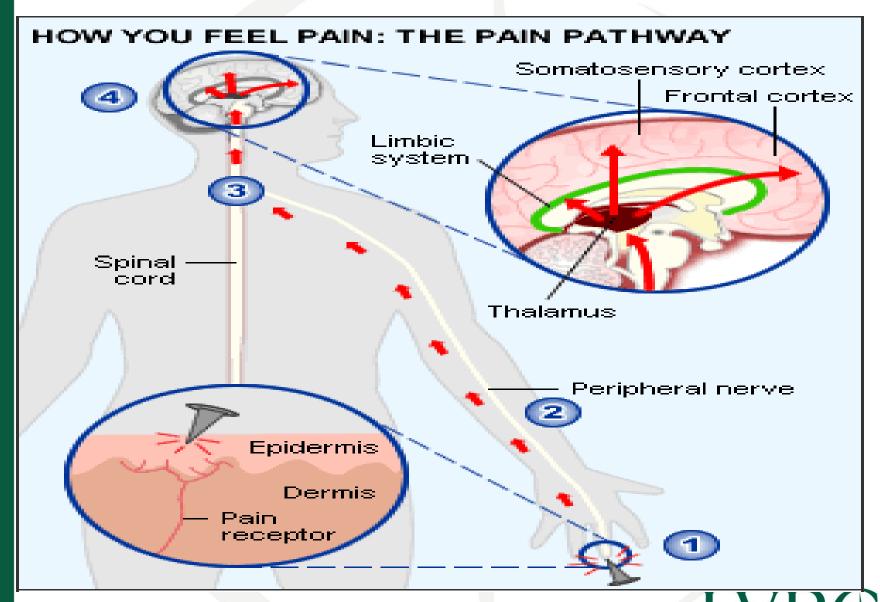
The International Association for the Study of Pain
(Mesky,1979)



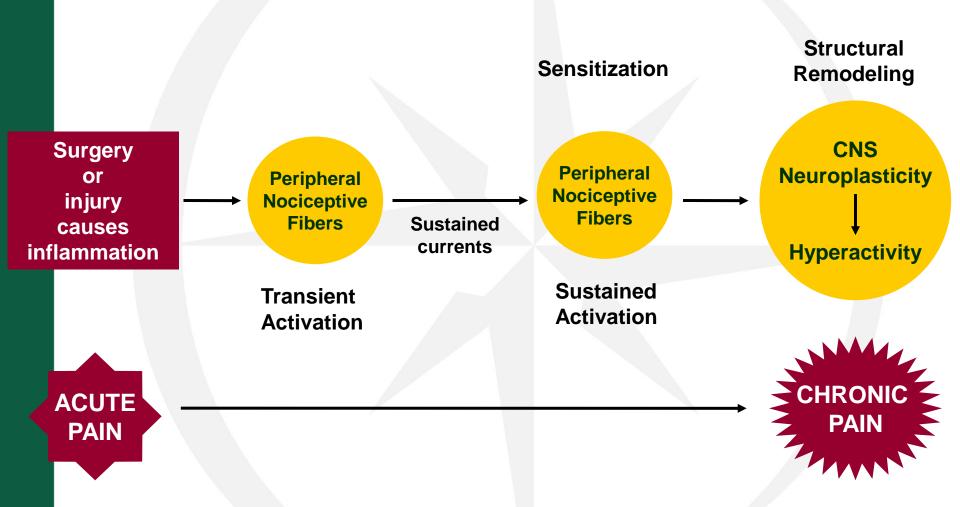
## Pain is influenced by:

- Culture
- Context
- Anticipation and previous experience
- Emotional and cognitive factors





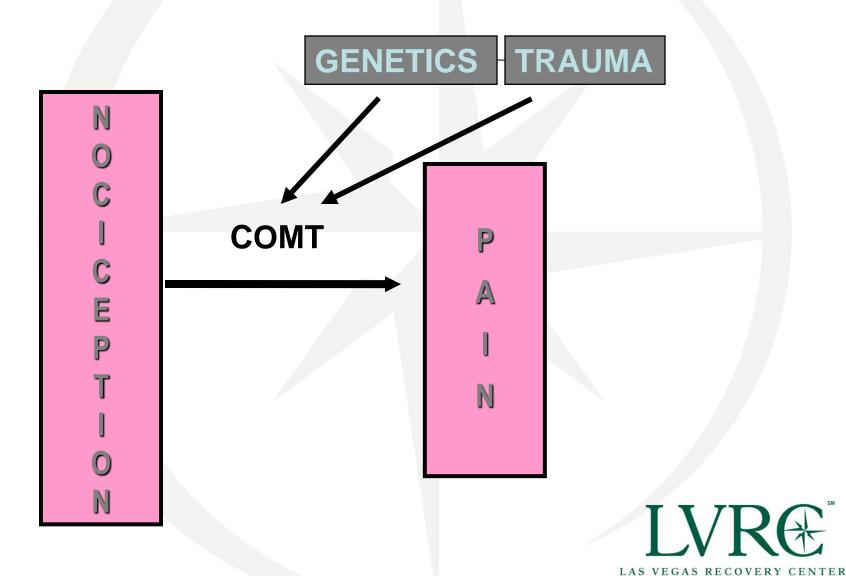
#### How does acute pain become chronic pain?



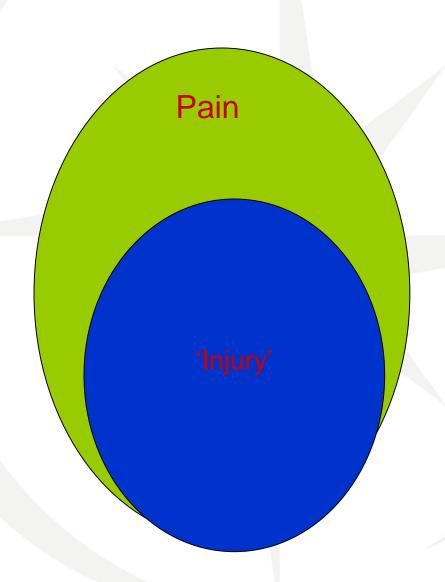
Woolf CJ, et al. *Ann Intern Med.* 2004;140:441-451; Petersen-Felix S, et al. *Swiss Med Weekly.* 2002;132:273-278; Woolf CJ. *Nature.*1983;306:686-688; Woolf CJ, et al. *Nature.* 1992;355:75-78.



#### Pain Switchboard

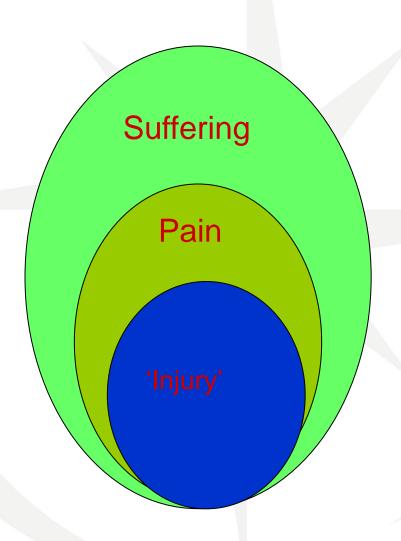


#### Patient with Pain





#### Patient with Pain





"...When touched with a feeling of pain, the ordinary uninstructed person sorrows, grieves, and laments, beats his breast, becomes distraught.

So he feels two pains, physical and mental.

Just as if they were to shoot a man with an arrow and, right afterward, were to shoot him with another one, so that he would feel the pains of two arrows..."

#### The Buddha



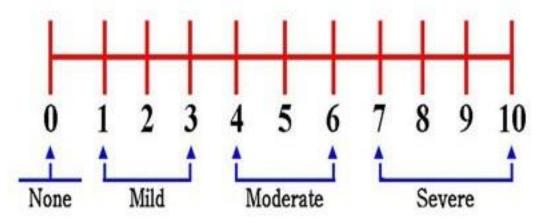
## Chronic Pain Syndrome

- Pain > 6 months
- Depression, anxiety, anger, fear
- Restriction in daily activities
- Excessive use of medications and medical services
- Multiple, *non-productive* tests, treatment, surgeries
- No clear relationship to organic disorder



Pain Assessment Scale: Clinical definition of pain: "Whatever the patient says it is...

unless proven otherwise"







#### Reasonable Goals of Pain Management: Enhance Quality of Life!!

Maintain function

Improve function

Reduce discomfort by 50%



## Pharmacologic Non-Opioid

- NSAID'S, COX 2S
- Tricyclics, SNRI'S
- Anticonvulsants
- Muscle Relaxants— (AVOID SOMA/carisoprodol)
- Topicals



#### Treating Chronic Pain with Opioids

Clinical Trial

Ongoing Assessment

Need exit strategy

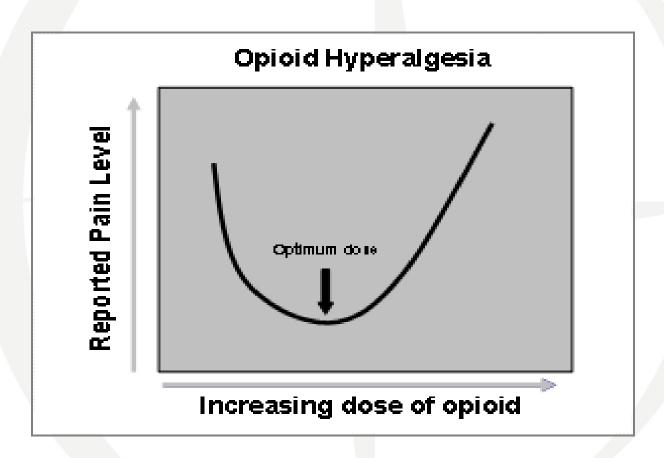


## Problems with Opioids

- Side Effects
- Tolerance and physical dependence
- Loss of function
- Perceive emotional pain as physical pain (chemical copers)
- Hyperalgesia



## NEJM, Ballantyne & Mao Nov 2003









# New Oxycontin® Formulation to Mitigate Abuse April 2010



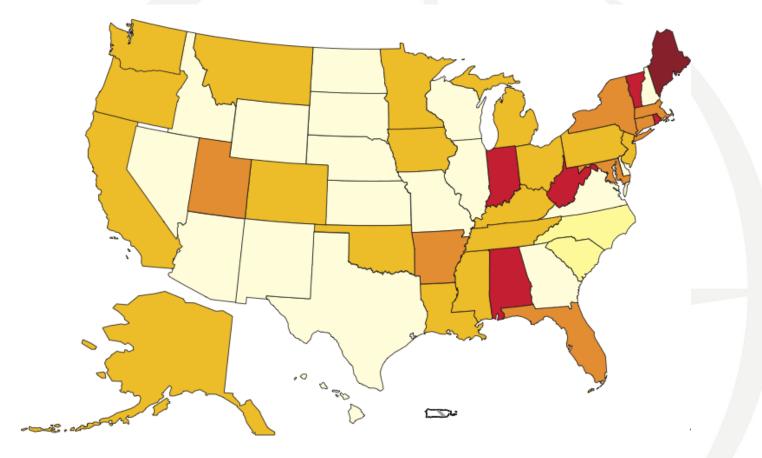
Oxycodone



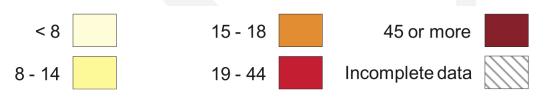
So, by 2012: 1. Freeze Oxy or 2. Opana®

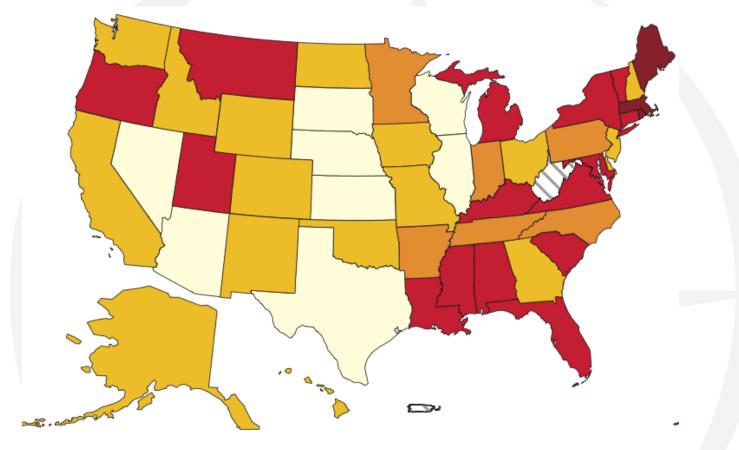




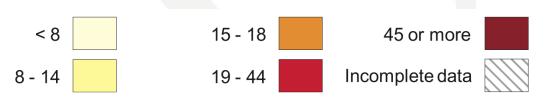


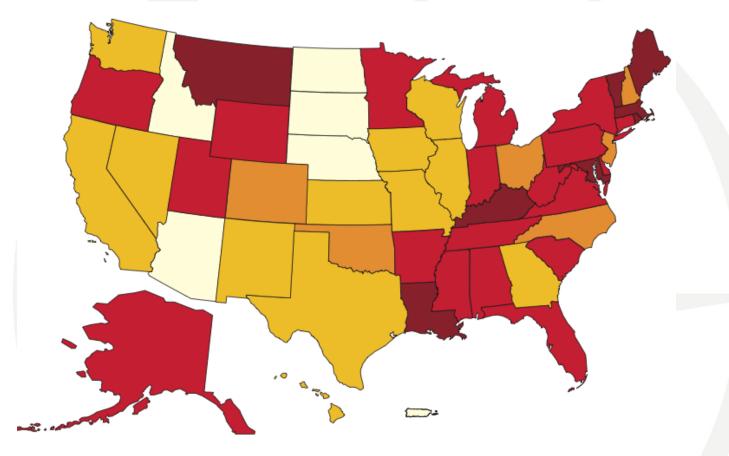




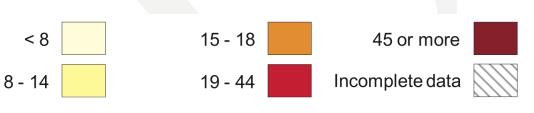


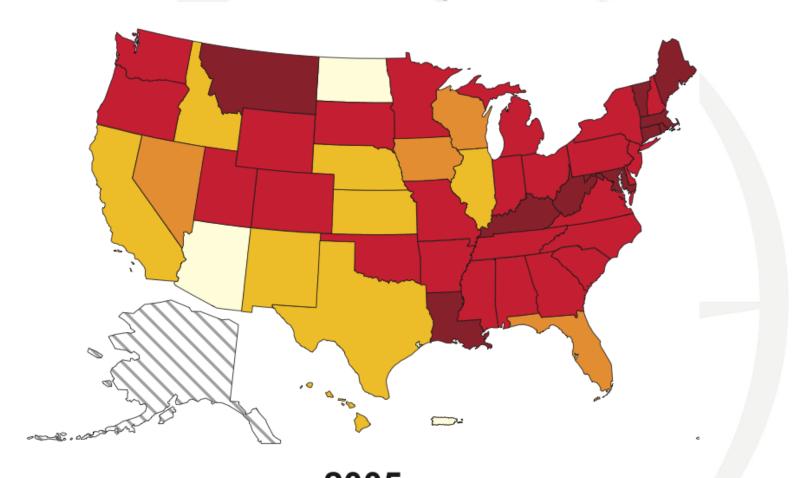




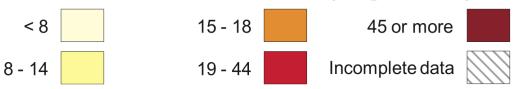


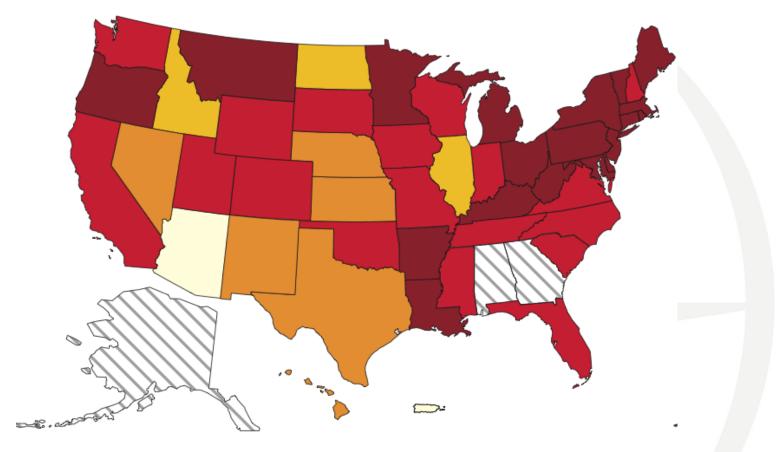
**2003** (range 2 – 139)



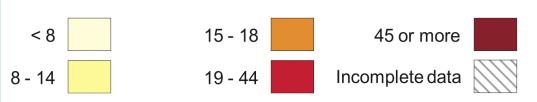


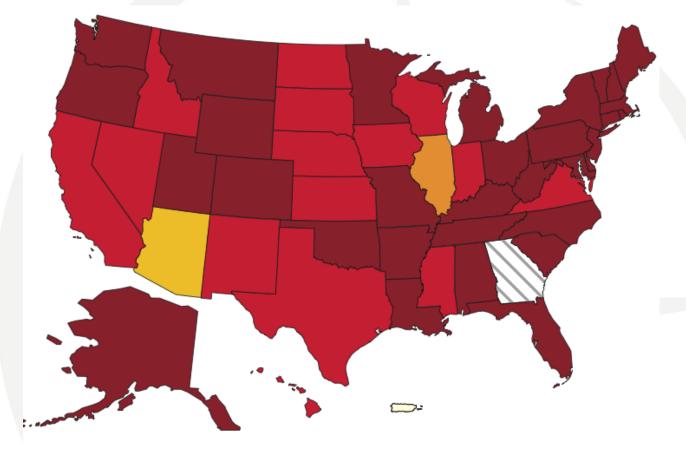




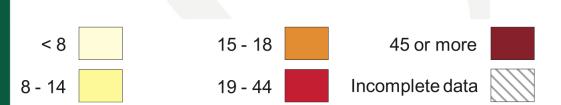


# **2007** (range 1 – 340)



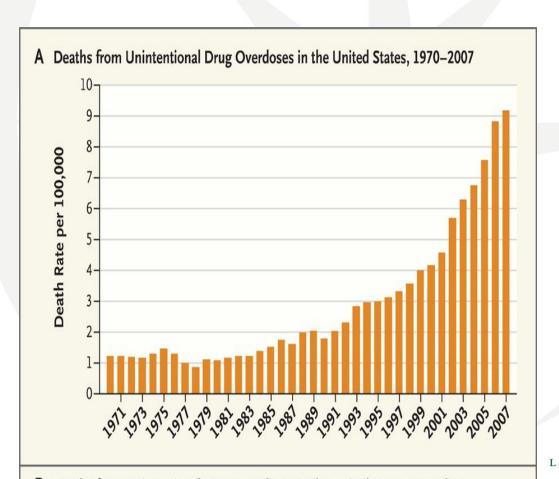


**2009** (range 1 – 379)

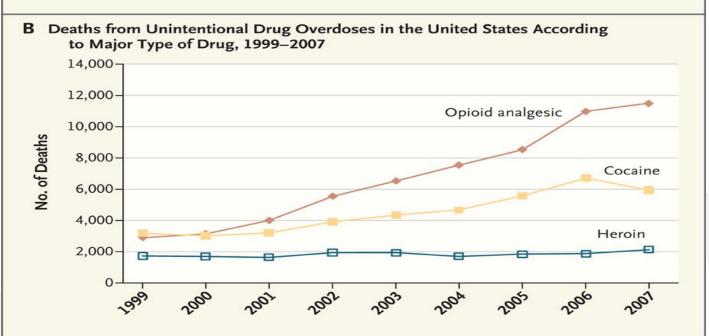


#### **U.S.** Rates of Death from Unintentional Drug Overdoses

Okie S. N Engl J Med 2010;363:1981-1985.







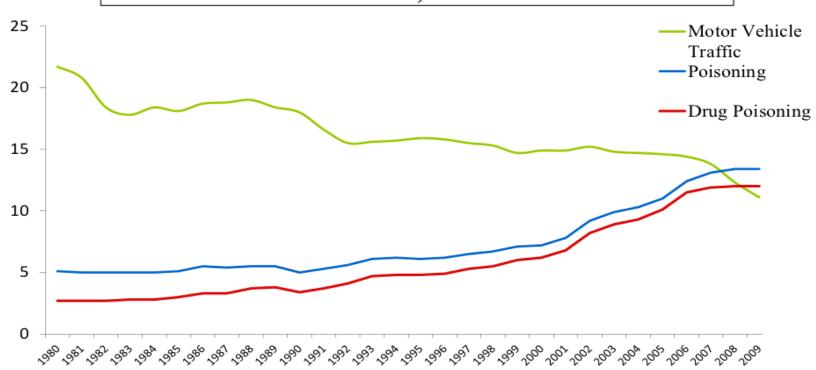
#### U.S. Numbers of Deaths, According to Major Type of Drug.

Okie S. N Engl J Med 2010;363:1981-1985.



# Prescription Drug Overdose and Abuse: A Growing Problem

Motor vehicle traffic, poisoning, and drug poisoning death rates, 1980-2009



Source: National Center for Health Statistics, Drug Poisoning Deaths in the United States Databrief, 2011.

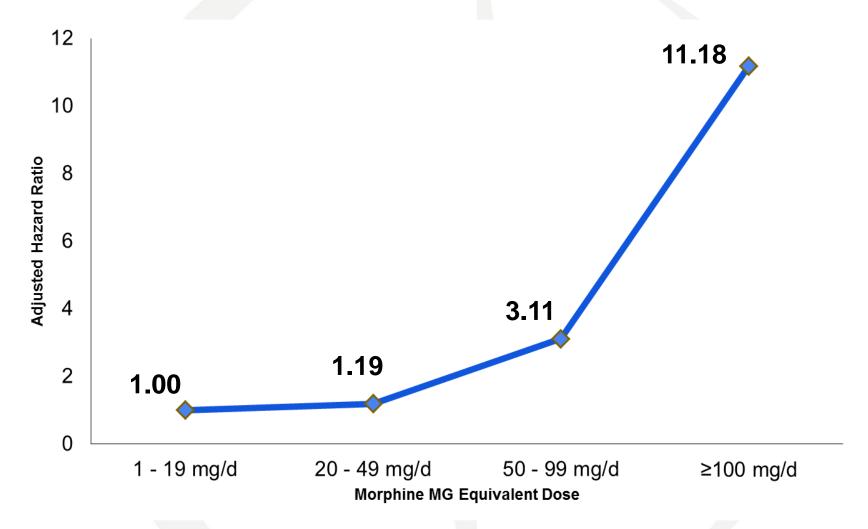


#### Dunn, et al. 2010

#### 9940 patients; 1997-2005 Results:

Morphine Dose	<u>Hazard Ratio of Serious</u> <u>Overdose</u>
None	0.19
1 - <20 mg /day	1.00
20 - <50 mg/day	1.19
50 - <100 mg/day	3.11
100 + mg/day	11.18

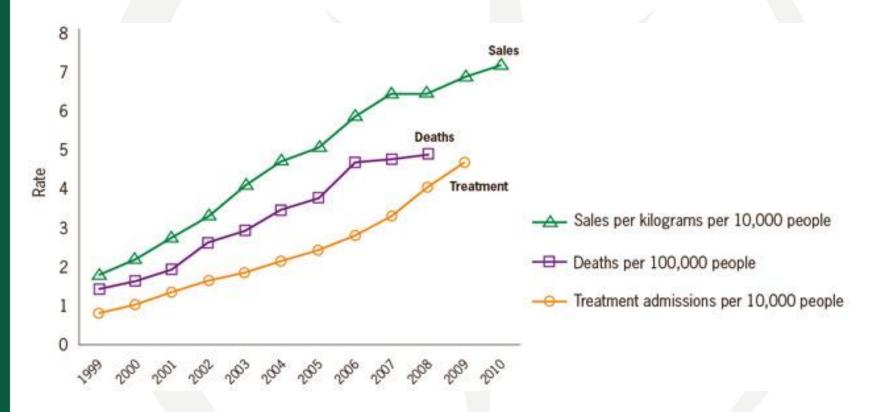
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Overdose defined as death, hospitalization, unconsciousness, or respiratory failure.

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# Rates of prescription painkiller sales, deaths and substance abuse treatment admissions (1999-2010)



SOURCES: National Vital Statistics System, 1999-2008; Automation of Reports and Consolidated Orders System (ARCOS) of the Drug Enforcement Administration (DEA), 1999-2010; Treatment Episode Data Set, 1999-2009



# Industry-influenced "Education" on Opioids for Chronic Non-Cancer Pain Emphasizes:

 Physicians are needlessly allowing patients to suffer because of "opiophobia."

Opioids are safe and effective for chronic pain.

Opioid therapy can be easily discontinued.

Opioid addiction is rare in pain patients.

"Only four cases of addiction among 11,882 patients treated with opioids."

Porter J, Jick H. *Addiction rare in patients treated with narcotics*. N Engl J Med. 1980 Jan 10;302(2):123

Cited 693 times (Google Scholar)



#### N Engl J Med. 1980 Jan 10;302(2):123.

#### ADDICTION RARE IN PATIENTS TREATED WITH NARCOTICS

To the Editor: Recently, we examined our current files to determine the incidence of narcotic addiction in 39,946 hospitalized medical patients¹ who were monitored consecutively. Although there were 11,882 patients who received at least one narcotic preparation, there were only four cases of reasonably well documented addiction in patients who had no history of addiction. The addiction was considered major in only one instance. The drugs implicated were meperidine in two patients,² Percodan in one, and hydromorphone in one. We conclude that despite widespread use of narcotic drugs in hospitals, the development of addiction is rare in medical patients with no history of addiction.

JANE PORTER
HERSHEL JICK, M.D.
Boston Collaborative Drug
Surveillance Program
Boston University Medical Center

Waltham, MA 02154

- 1. Jick H, Miettinen OS, Shapiro S, Lewis GP, Siskind Y, Slone D. Comprehensive drug surveillance. JAMA. 1970; 213:1455-60.
- 2. Miller RR, Jick H. Clinical effects of meperidine in hospitalized medical patients. J Clin Pharmacol. 1978; 18:180-8.



#### Total Sales & Prescriptions for OxyContin (1996-2002)

Table 2: Total OxyContin Sales and Prescriptions for 1996 through 2002 with Percentage Increases from Year to Year

Year	Sales	Percentage increase	Number of prescriptions	Percentage increase
1996	\$44,790,000	N/A	316,786	N/A
1997	125,464,000	180	924,375	192
1998	286,486,000	128	1,910,944	107
1999	555,239,000	94	3,504,827	83
2000	981,643,000	77	5,932,981	69
2001	1,354,717,000	38	7,183,327	21
2002	1,536,816,000	13	7,234,204	7

Source: United States General Accounting Office: Dec. 2003, "OxyContin Abuse and Diversion and Efforts to Address the Problem."

2013 – US sales of Rx painkillers = \$12 Billion (IMS Health)







For pain lasting several days, weeks, months or more\*



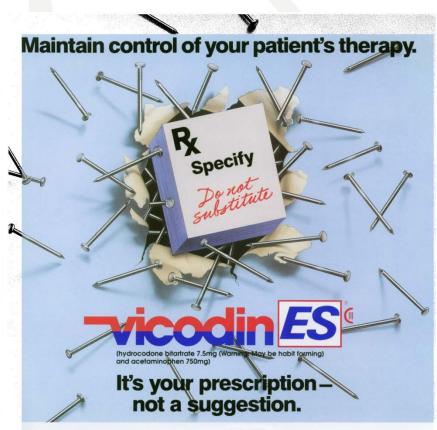






FDA <u>used to</u> permit drug manufacturers to advertise opioids as safe and effective for chronic pain.





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# Photo taken at the 7th International Conference on Pain and Chemical Dependency, June 2007



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#### Methadone (Dolophine, Methadose) Leading Cause of Rx OD Deaths 2010-2011

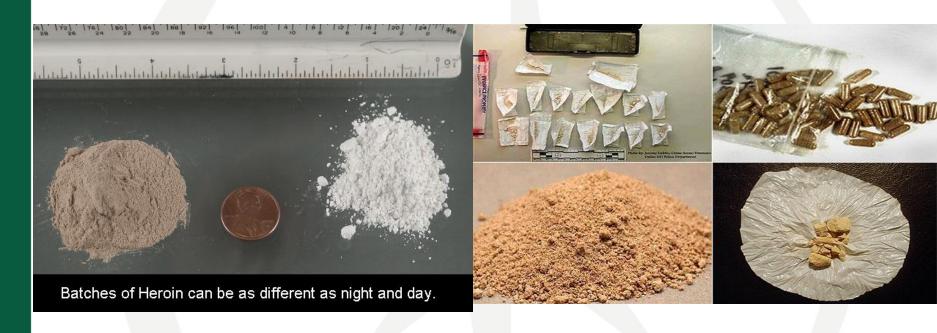








# Heroin: making a big comeback in 2010 on!



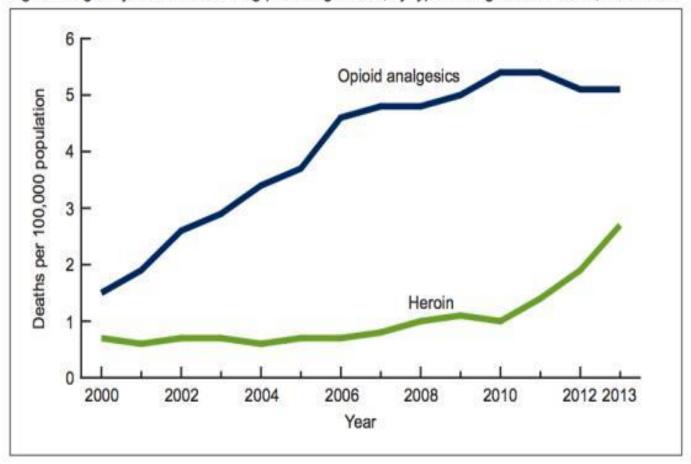


Texas "Cheese Heroin": Black Tar Mixed with Tylenol PM

Black Tar heroin

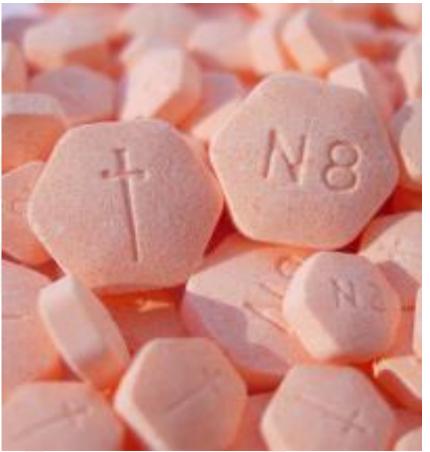


Figure 1. Age-adjusted rates for drug-poisoning deaths, by type of drug: United States, 2000-2013

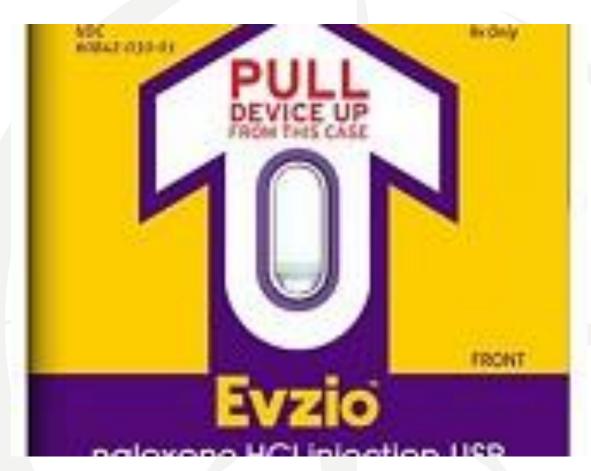


## Suboxone tablets (RB)









Handheld Device That Delivers Opioid Overdose Treatment Approved by FDA



#### **ASAM Short Definition of Addiction**

Addiction is a primary, chronic disease of brain reward, motivation, memory and related circuitry.

Dysfunction in these circuits leads to characteristic biological, psychological, social and spiritual manifestations.

This is reflected in an individual pathologically pursuing reward and/or relief by substance use and other behaviors...



# This is a **false dichotomy**Aberrant drug use behaviors are common in pain patients

63% admitted to using opioids for purposes other than pain<sup>1</sup>

#### **Pain Patients**

35% met DSM V criteria for addiction<sup>2</sup>

92% of opioid OD decedents were prescribed opioids for chronic pain.

"Drug Abusers"

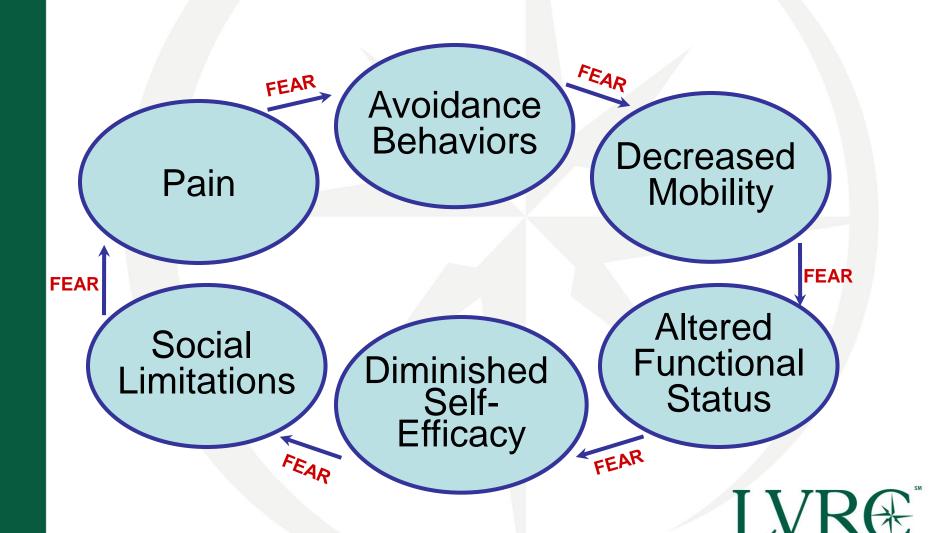
- 1. Fleming MF, Balousek SL, Klessig CL, Mundt MP, Brown DD. Substance Use Disorders in a Primary Care Sample Receiving Daily Opioid Therapy. J Pain 2007;8:573-582.
- 2. Boscarino JA, Rukstalis MR, Hoffman SN, et al. Prevalence of prescription opioid-use disorder among chronic pain patients: comparison of the DSM-5 vs. DSM-4 diagnostic criteria. J Addict Dis. 2011;30:185-194.
- 3. Johnson EM, Lanier WA, Merrill RM, et al. Unintentional Prescription Opioid-Related Overdose Deaths: Description of Decedents by Next of Kin or Best Contact, Utah, 2008-2009. J Gen Intern Med. 2012 Oct 16.

#### **Emotional Intensifiers**

- Guilt
- Anger Resentments
- Loneliness
- Helplessness
- Fear



### Cycle of Uncontrolled Pain and Fear



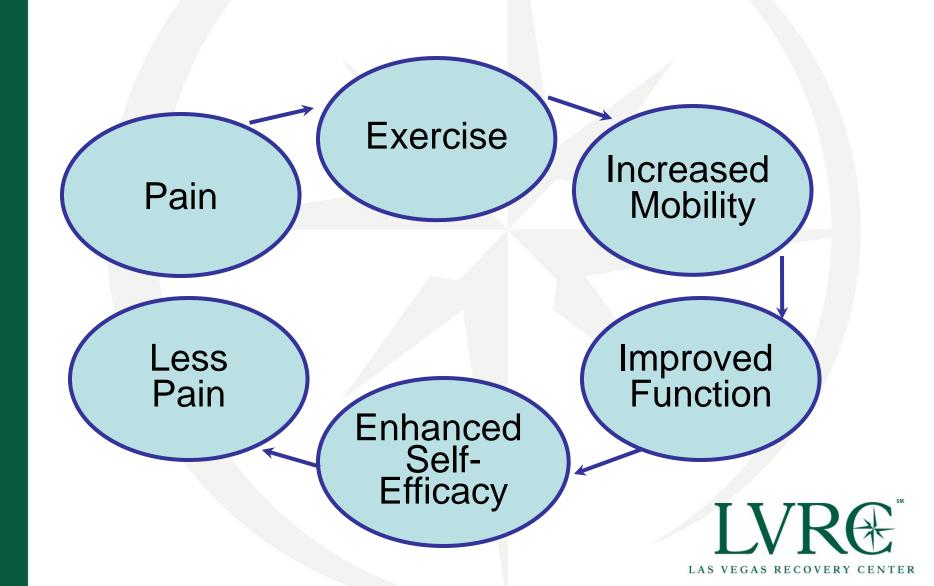
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# Ways to reduce pain intensity

- Cognitive/Behavioral Therapy (CBT)
- DBT/ACT
- Attention/Distraction
- Control/Placebo effect
- Fear reduction



# Reversal of Cycle of Fear and Pain



#### Pain Pearls

Conditioning Increases Pain.

• Pain Patients Are A Pain.

Secondary Gain Prevents Getting Well.



#### Pain Recovery – Develop Balance

- Mental
- Emotional
- Physical
- Spiritual

#### RESULTING CHANGES

- Relationships
- Positive actions and behaviors



#### Non-Medication Treatments at LVRC

- Exercise Physical Therapy
- Chiropractic Treatments
- Therapeutic Massage
- Reiki
- Acupuncture
- Nutrition
- Individual + group therapy
- Mindfulness-Based Stress Reduction (Kabat-Zinn)
- Yoga Chi Gong



# **QUESTIONS?**

Mel Pohl, MD, FASAM
702-515-1373
mpohl@centralrecovery.com
thepainantidotebook.com
www.supportPROP.org
www.likemindeddocs.com



### 5 Key Facts:

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#### THANK YOU

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mpohl@centralrecovery.com
adaywithoutpain.com

